

Barry Quinlan

From: "Ruby Dulmage" <Ruby.Dulmage@nemkona.com>
To: "Barry Quinlan - Curtis-Straus" <certification@curtis-straus.com>
Sent: Friday, June 28, 2002 9:43 AM
Attach: Hugs tag FCC response.pdf
Subject: Fw: Instantel FCC ID: ISEBTG

Hi Barry:

Below is the response to your questions regarding Instantel, FCC ID: ISEBTG

Thanks,
 Ruby

-----Original Message-----

From: Chris Bisailion <cbisaillion@instantel.com>
To: Kevin Carr (E-mail) <kevin.carr@nemkona.com>
Cc: Rob McCulloch <rmcculloch@instantel.com>; Peter Rousseau <prousseau@instantel.com>
Date: June 27, 2002 4:11 PM
Subject: re: Instantel FCC ID: ISEBTG

Hello Kevin,

Here are the responses to the questions posed by Curtis-Straus TCB.

1. The duration of the (longest) message is 286 msec.
2. The 15000uV/m is a typo. It should read 3750uV/m. Let me clarify that the tag transmitter has a fixed peak power level. Measurements of these emissions have been submitted. This security product does have an emergency mode with increased average power levels brought about by increased duty cycle. Here is a description of the emergency mode of this security product:

When the tag detects a situation where an infant is at risk, then it sends transmissions promptly, using double the duty cycle used in (worst case) normal operation. Specifically, when the tag detects that an infant has come in close contact with an incorrect Mother (and is therefore at risk of fatal disease transfer through breastfeeding), the tag sends ID information without waiting for the usual 11.79 second quiet time to elapse. Further, the duty cycle of this information (measured in the 'worst' 100 ms period) doubles. The attached diagrams show the timing of these messages. The "duty cycle factor" (used to calculate average power) is therefore 6 dB lower for these. This effectively increases the (strongest orientation) average power from 59.7 dB uV/m for (worst case) normal messages, to 65.7 dB uV/m for emergency messages. Once the initial indication of the emergency situation has been sent (as described here), the tag continues to transmit 14 ms of ID information approximately every 1 second while the emergency persists. These transmissions end (up to) 3 seconds after the emergency ends with the separation of the infant from the incorrect mother.

Here are the timing diagrams:

<<Hugs tag FCC response.pdf>>

If you have any more question please don't hesitate to call.

Regards

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